

Title (en)

METHOD OF APPLYING CHEMICAL CHARGE MODIFIERS TO A SUBSTRATE AND ARTICLE THEREOF

Title (de)

VERFAHREN ZUM AUFBRINGEN VON CHEMISCHEN LADUNGSMODIFIKATIONSMITTELN AUF EINEM SUBSTRAT UND DARAUS HERGESTELLTE ARTIKEL

Title (fr)

PROCEDE D'APPLICATION DE MODIFICATEURS DE CHARGES CHIMIQUES A UN SUBSTRAT ET ARTICLE EN RESULTANT

Publication

**EP 0857229 A1 19980812 (EN)**

Application

**EP 96933843 A 19960920**

Priority

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- US 54885595 A 19951026

Abstract (en)

[origin: WO9715710A1] A method of applying chemical charge-modifiers to a permeable sheet including the steps of: providing a permeable sheet having a plurality of individual exposed surfaces, at least a portion of which having relatively low surface energies; providing an aqueous solution containing amphiphilic macromolecules, the solution having a relatively high surface tension; contacting the solution containing amphiphilic macromolecules under shear stress conditions with the permeable sheet so that at least a portion of the amphiphilic macromolecules are adsorbed onto at least some individual exposed surfaces to form a coated permeable sheet; and contacting the coated permeable sheet with a solution containing chemical charge modifiers to incorporate chemical charge modifiers onto at least a portion of the amphiphilic macromolecules. A chemically charge-modified permeable sheet composed of: a permeable sheet having a plurality of individual exposed surfaces, at least a portion of which having a surface energy of less than about 45 dynes per centimeter; amphiphilic macromolecules adsorbed onto at least some individual exposed surfaces; and chemical charge modifiers incorporated onto at least a portion of the amphiphilic macromolecules.

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IPC 8 full level

**B05D 1/18** (2006.01); **D06M 15/15** (2006.01); **D06M 23/00** (2006.01)

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Citation (search report)

See references of WO 9715710A1

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